

PUB-NO: JP02001071384A

DOCUMENT-IDENTIFIER: JP 2001071384 A

TITLE: LASER WELDING METHOD FOR RESIN MEMBERS

PUBN-DATE: March 21, 2001

INVENTOR-INFORMATION:

NAME	COUNTRY
OTA, SHIROYASU	
ASAKAWA, HISANORI	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
TOYOTA MOTOR CORP	
DAINICHISEIKA COLOR & CHEM MFG CO LTD	

APPL-NO: JP11246977

APPL-DATE: September 1, 1999

INT-CL (IPC): B29C 65/16

ABSTRACT:

PROBLEM TO BE SOLVED: To strongly bond resin members mutually without generating a difference between the hues of the resin members.

SOLUTION: In a laser welding method of resin members, a first resin member 1 non-adsorbable to laser beam and a second resin member 2 absorbable to laser beam are superposed one upon another and the superposed part is irradiated with laser beam on the side of the first resin member 1 to weld both resin members 1, 2. The first resin member 1 consists of a first resin and a laser beam nonabsorbable colorant dispersed in the first resin and the second resin member 2 consists of a second resin and a laser beam absorbable colorant dispersed in the second resin. Since the resin members respectively colored by the colorants are welded by this laser welding method, an apparent feelinhg of physical disorder of the bonded resin member is not generated.

COPYRIGHT: (C)2001, JPO